## PEGEIVED GENTRAL FAX GENTER AUG. 2 8 2006

PATENT

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

IWASA, Shoji

Application No.:

10/674209

Filed:

September 29, 2003

For:

Polishing Composition and Rinse Composition

Examiner:

Michael A. Marcheschi

Group Art Unit:

1755

Mail Stop \_\_\_\_\_\_\_
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Docket No.: O11.2B-11333-US01

## SWORN SUPPLEMENTAL DECLARATION OF SHOJI IWASA

I, Shoji Iwasa state:

- (1) I am the inventor of the above-identified U.S. patent application and I am currently employed by Fujimi Incorporated as an engineer in the research and development division. I have a bachelor's degree in synthetic chemistry. By virtue of this education and experience I have sufficient credentials and expertise to honestly and accurately present current skill in the art of polymer compositions and in particular water soluble compositions comprising hydroxyethyl cellulose (HEC) and/or polyethylene oxide (PEO).
- (2) I am very familiar with the properties of water soluble polymers. I understand that the following claimed composition is excellent at reducing haze level of wafer surfaces:

HEC compounded in a quantity of between 0.01% and 3% by weight and having an average molecular weight of between 300,000 and 3,000,000;

PEO compounded in a quantity of between 0.005% and 0.5% by weight and having an average molecular weight of between 30,000 and 50,000,000;

an alkaline compound;

water; and

silicon dioxide.

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- (3) I have reviewed US Application 10/674209. The following additional information and tables illustrate that the inventive concept disclosed in the current claims display unexpected synergistic wafer surface haze reducing properties. Tables A and B were previously presented. Table A presents a few data points within the claimed ranges that display the unexpected synergistic results and Table B provides data points out of the claimed ranges that do not show the unexpected results. New Table C provides an extensive number of additional data points within the claimed ranges controlled for each individual range defining item. New Tables 1-12 are particular data sets listed in Table C which have been isolated to clearly illustrate the high point, low point, and mid values of each or the various ranges in the claims. The observed data shown in table C is so complete and representative that it can be used to extrapolate that every possible combination according to the claimed ranges will display the unexpected synergistic results. The data in table C when contrasted with that of table B also conclusively demonstrates that solutions outside of the claimed ranges will not show these same unexpected results.
- Table C lists the haze reducing effects of the composition with the weight percentages and molecular weights of various proportions of HEC and PEO to demonstrate that for every possible permutation of the claimed ranges, unexpected synergistic results occur. Tables 1-12 break down this data into smaller units which control for each variable in the claimed ranges.
  - (5) <u>Tables 1, 2, and 3</u> Unexpected results occur when controlling for HEC molecular weight

Tables 1, 2, and 3 provide representative data demonstrating that for all compositions in which HEC has a molecular weight of between 300,000 and 3,000,000 as claimed in claim 1, unexpected results occur. Table 1 controls for HEC's ,molecular weight at the low end of the claimed range (300,000), table 2 at a value in the middle of the claimed range (1,200,000), and table 3 at a value representative of the high end of the claimed range (1,800,000). These three tables together show that shows that for all of the claimed values of HEC's molecular weight in base claim 1, where the HEC weight percentage varies from between 0.01% to 3% (with the

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representative range of 0.05% to 2%) the composition will display unexpected results. Similarly it shows that for the claimed range of the molecular weight of HEC, in all circumstances where the PEO has a molecular weight of between 30,000 and 50,000,000 (with the representative sample of 80,000 to 8,000,000) the composition will display unexpected results. Lastly it also shows that for the claimed range of HEC's molecular weight, in all compositions where PEO has a weight percentage of 0.005% to 0.5%, unexpected results will occur.

(6) <u>Tables 4, 5, and 6</u> - Unexpected results occur when controlling for HEC weight percentage

Tables 4, 5, and 6 provide representative data demonstrating that for all compositions in which HEC has a weight percentage of between 0.01% and 3% as claimed in claim 1, unexpected results occur. Table 4 controls for HEC's weight percentage at a value representative of the low end of the claimed range (0.05%), table 5 at a value in the middle of the claimed range (0.25%), and table 6 at a value representative of the high end of the claimed range (2%). These three tables together show that shows that for all of the claimed values of HEC's weight percentage in base claim 1, where the HEC's molecular weight varies from between 300,000 to 3,000,000 (with the representative range of 300,000 to 1,800,000) the composition will display unexpected results. Similarly it shows that for the claimed range of the weight percentage of HEC, in all circumstances where the PEO has a molecular weight of between 30,000 and 50,000,000 (with the representative sample of 80,000 to 8,000,000) the composition will display unexpected results. Lastly it also shows that for the claimed range of HEC's weight percentage, in all compositions where PEO has a weight percentage of 0.005% to 0.5%, unexpected results will occur.

(7) <u>Tables 7, 8, and 9</u> - Unexpected results occur when controlling for PEO molecular weight

Tables 7, 8, and 9 provide representative data demonstrating for all solutions in which PEO has a molecular weight of between 30,000 and 50,000,000 as claimed in claim 1, unexpected results occur. Table 7 controls for PEO's molecular weight at a value representative of the low end of the claimed range (80,000), table 8 at a value in the middle of the claimed range (400,000), and table 9 at a value representative of the high end of the claimed range (8,000,000).

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These three tables together show that shows that for all of the claimed values of PEO's molecular weight in claim 1, where the HEC weight percentage varies from between 0.01% to 3% (with the representative range of 0.05% to 2%) the composition will display unexpected results. Similarly it shows that for the claimed range of the molecular weight of PEO, in all circumstances where the HEC has a molecular weight of between 300,000 and 3,000,000 (with the representative sample of 300,000 to 1,800,000) the composition will display unexpected results. Lastly it also shows that for the claimed range of PEO's molecular weight, in all compositions where PEO has a weight percentage of 0.005% to 0.5%, unexpected results will occur.

(8) <u>Tables 10, 11, and 12</u> – Unexpected results occur when controlling for PEO weight percentage

Tables 10, 11, and 12 provide representative data demonstrating that for all compositions in which PEO has a weight percentage of between 0.005% and 0.5% as claimed in claim 1, unexpected results occur. Table 10 controls for PEO's weight percentage the value at the low end of the claimed range (0.005%), table 11 at a value in the middle of the claimed range (0.1%), and table 12 at the value of the high end of the claimed range (0.5%). These three tables together show that shows that for all of the claimed values of PEO's weight percentage in claim 1, where the HEC's molecular weight varies from between 300,000 to 3,000,000 (with the representative range of 300,000 to 1,800,000) the composition will display unexpected results. Similarly it shows that for the claimed range of PEO's weight percentage, in all circumstances where the PEO has a molecular weight of between 30,000 and 50,000,000 (with the representative sample of 80,000 to 8,000,000) the composition will display unexpected results. Lastly it also shows that for the claimed range of PEO's weight percentage, in all compositions where PEO has a molecular weight of between 30,000 and 50,000,000 (with the representative range of 80,000 8,000,000), unexpected results will occur.

(9) All claimed compositions having any alkaline compound at any weight percentage will show unexpected results.

The same unexpected results that occur with ammonium at 1.0% also occur with all of the other alkaline compounds including: inorganic alkaline compounds such as potassium

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hydroxide (PHA), sodium hydroxide (NHA), potassium hydrogen carbonate (PCAH), potassium carbonate (PCA), sodium hydrogen carbonate (NCAH), and sodium carbonate (NCA); ammonium salts such as ammonia (AN), tetramethyl ammonium hydroxide (TMAH), ammonium hydrogen carbonate (ACAH), and ammonium carbonate (ACA); and amines such as methylamine (MA), dimethylamine (DMA), trimethylamine (TMA), ethylamine (EA), diethylamine (DEA), triethylamine (TEA), ethylenediamine (EDA), monoethanolamine (MEA), N-(n-aminoethyl) ethanolamine (AEEA), hexamethylenediamine (HMDA), diethylenetriamine (DETA), triethylenetetramine (TETA), piperazine anhydride (PIZ), piperazine hexahydride, 1-(2-aminoethyl) piperazine (AEPIZ), and N-methylpiperazine (MPIZ), and any combination thereof. The unexpected haze reducing results can be obtained with claimed compositions having any kind of alkaline compound.

In addition, the unexpected results will occur with all weight percentages of such alkaline compounds and not only at a 1.0%. Deviations from within a preferred weight percent range between 0.01% to 6% will have a less pronounced unexpected haze reducing effect.

Nevertheless, an unexpected haze reducing effect will occur for all possible weight percentages of alkaline compounds as stated in the claims.

#### (10) Conclusion

The claimed composition provides excellent haze level reduction of wafer surface without deteriorating LPD and surface conditions of the wafer surface. These reduction levels occur for all possible permutations within the claimed ranges. In particular, reductions occur for all claimed weight percentages of alkaline compounds and with all kinds of alkaline compounds. This advantage is not obvious over the teachings known to others of ordinary skill in this art.

#### (11) Oath

I declare that all statements made herein of my knowledge and are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, both under 18 U.S.C. § 1001 and that such willful and false statements may jeopardize validity of the application or any patent issued thereon.

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Date: August 23, 2006

Signature: Sagoji Awasa

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Table A

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-	쭚	003	3	PE0	150~600	3	₹	9	•	۷	,
<b>.2</b>	哥	1200	327	<u> </u>	158~400	2.905	₹	0.	•	۷	0
2	鱼	ğ	0.25	<u>8</u>	150~60	100	*	3	6	٥	0
3	至	ğ	0.23		150~400		NΥ	1.0	*	⊲	0
9	ş	92	0.25	<u> 2</u>	150~400	3	¥	1.0	0	4	0
ide		<u>2</u> 2	025	Œ	156~400	6.5	₩	9	•	4	1
•	皇	<b>5</b> 80	3	2	150~400	QŢ	357	63	0	٥	
5	얉	<u>2</u>	-	윤	150~400	<u>a</u>	<b>A</b>	1,0	•	্ব	ı

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nehr politikez rate	2	5	2	9	9	2	9	3	9	2	<b>1</b>
ingredient for enhancing politikes rata	Paleur	¥	₹	₹	₹	₹	₩.	7	₹	₹	**
	五						3	3	Ð.	3	97
20 favor	(X EQ.)		1		,	•	156~400	150~400	150~400	150~400	120~400
Licing fer	P					,	Ð	9	<u> </u>	8	950
reportest for reducing into level	ž.	Joo	9.	22	3	1					
thecat	(K10)	1250	是.	88	8	1203	,	,	t	ı	,
	Name	显	2	£		PEC C					
Supplemental	Comparatho Examples	Charte By da	Comp. Et. 35	Comp Er 5	दिवास हैंद है	Comp. Er. Ed	Overp. Ex Se	Oomp Ex 16	Ooste, Ex. 9	Comp. Ex. Bo	Ocean Ex 9d

HEC: trydroxyettyl osilutose PEO: potyethylens oxids

AM: 23mG ammorium southon As for evaluation of the pulishing results, see the spealination. Evamples 1-3, \$, 6, and Comparative Examples 8, 8 were described on the originsly fied epacification. Examples 14, 2a, 5a, 6a, and Comparative Examples 3a-54, 8a-9a are newly presented.

### TABLE C

#elqmex	MW HEC	HEC wt%	PEO MW (x10³)	PEO wt%	Alkatine	Alkaline wt%	Haze Level	LPO	Surface Condition
1	(x10 <sup>2</sup> )	The state of the s	(x10°) 150-400 150-400 150-400 150-400	\$018.8HQ	AM	1,0	0	Δ	0_
2	1,200		(4, 3, 6, 20)	Q1986(F)	AM	1,0	0	Δ	<u> </u>
3	(M) (1.0)	Don't is	\$4 <b>7</b> 53995	SMOOT!	AM	1.0	Q	<u> </u>	
4	是公正法	0.25	种类似的	e pitter	AM	1.0	<u>o</u>	<b>├</b> ♠	<u> </u>
5	1,200	0.25	1.00	0.000	AM	1.0	<u> </u>	<del>                                     </del>	0
<u></u>	S-46-6 S	0.25	100		AM AM	1.0	0	+ 🛠	<del> </del>
	4 220		Contraction of the contraction o	4.452	AM	1.0	ŏ		<del></del>
	1,200			No year Lags Targetter then	AM	1.0	o		0
10	200	400	150~400	100	AM	1.0	Ö	$\overline{\Delta}$	
11	1.200	C4011	150~400		AM	1.0	0	Δ	
12	NOTE OF		150~400	200000	AM	1.0	Q	Δ	
13			150~400	E的问题	AM	1.0	Q	Δ_	
14			150~400		AM	1.0	<u> </u>	<b>A</b>	<del>  0</del>
15	国的社会	0.25	150-400		AM_	1.0	8	<del>  &amp;-</del>	<del>                                     </del>
16	3.0000		# 100~400 B		2 7191	1.0	8	<del>  \ \ \ \ \ \</del> -	<del> </del>
17	7,200		150~400		AM	1.0	ð		_
10				Sec. Sec.	AM	1.0	ő		0
20	1.200	SCORECT	14 Sec. 15 M	S (c. 18)	AM	1.0	Ō	Δ	
21	22,000	Sept. de	TO Its	Margin.	AM	1.0	0	Δ	_
22	200	0.25	F-06-60-60	(K.000)	AM	1,0	9	Ą	=
23	1,200	0.25		推广的证明	MA	1.0	Q	<del> </del> ↓	0
24	200 CO	0.25	HALL CONTRACT		AM	1.0	<u> </u>	<del>I ⊹</del>	+-
25	2000		150~400 150~400		AM AM	1.0	1 8	+ 😓	+ =
- 26	1,200				AM B	1.0	8		<del>                                     </del>
20	100 C 100			01	AM	1.0	Lö		1 <del>-</del>
25	1,200	W. 6 6 2 C	No. of Section	0.1	AM	1.0	<b>8</b>		<del>-</del>
30	100	10 0	15.00	0.1	AM	1.0	0	Δ	<u> </u>
31	<b>建筑和</b> 资本	0.25	STATE OF STREET	0.1	AM	1.0	_ ☆	ΔΔ	0
32	1,200	0,25		0.1	AM	1.0	*	1 4	<del>  -</del>
33	150	0.25	150~400	0.1	AM_	1.0	<u> </u>	1 4	<del>-</del> -
34				0.1	AM_	1.0	Ø	+ 😤	+ =
31	1,200			0.1	AM	1.0	<del>  2</del>	1 &	+-=-
<u>36</u>			150~400	0.1	AM	1.0	<del>  8</del>	1 2	0
30	1 200		150-400	0.1	MA	1.0	Ö		<del>                                     </del>
39			150~400	0.1	AM	1.0	Ö	$\overline{\Delta}$	
40	(数据)	0.25	150~400	0.1	AM	1.0	<u> </u>	LA	<b>—</b>
4	1,200	0.25	150~400	0.1	AM	1.0	<b>.</b>	Δ	•
42	2 2 1 1 1 1 1	0.25	150~400	0.1	AM	1,0	*	<del>                                     </del>	<del>-</del>
43	AND ALCOHOLD		150~400	0.1	AM	1.0	8	$\frac{1}{2}$	+
	1,200		150~400	0.1	AM	1.0	8	+ 😤	<del>-</del>
44	26M70242		150~400	0.1	AM	1.0	<del>l ă</del>	<del>                                      </del>	+ 9
	1 1 200	2000 Fig.		0.1	AM	1.0	T &	1 2	9
4	2 0000000000000000000000000000000000000		(25)	0.1	AM	1.0	Ö	<u> </u>	-
- 41	17.4	0.25	Environment	0.1	AM	1.0	<b>☆</b>	$\Delta$	
50	1,200	0.25	Part of the second	0.1	AM	1,0	***	Δ	•
5	16086	0.25	Management	0.1	AM	1,0	8	ļĄ	<del>  -</del>
5:	2		10.0	0.1	AM	1.0		<del>                                     </del>	<del>-</del>
5	1,200			0.1	AM	1.0	8	<del>                                     </del>	<u> </u>
5				0.1	MA 😣	1.0	<del>  8</del> -	+ 🛠	+
D	8 1 200		150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~400 150~40		AM	1.0	<del>  8</del>	+ 🛣	<del>1 -</del>
F.	7 32 28 57	100			AM	1.0			.0
5	B \$3500	0.25	100	10000	AM	1.0	8	Δ	Ö
5	9 1,200	0.25	Manual D.	1881-58	AM	1.0	. 0	Ą	
6	0	0.25	KINE SE	105	AM	1.0	9	$\rightarrow$	+-
8	1 5 30 0				MA E	1.0	18	<del>                                     </del>	+
- 6	2 1,200				AM AM	1.0	18	<del>  \ \ \ \ \</del>	<u> </u>
<u> </u>	A WOMEN		150-400		AM	1.0	18	+ 😤	<del>  _</del>
A	5 1 200		150~400		AM	1.0	T ŏ		0
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7	0 55000		150~400		MA E	1.0	T Š	<del>                                     </del>	+-=
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	200		100~400		AM AM	1.0	8		<del>  º</del>
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7	7 1,200	0.25	EU00-1800	010000	AM	1.0	0	$\Box$	
7	8 4 100	列 0.26			AM	1.0	0	A	
7	9 2 00	2 Ref 12 Se	0.04000	1 400	AM	1.0	9	<b>→</b>	<del>-</del>
	n + 200	The second second	SOUTH THE PARTY OF T	<b>网络东西斯科特</b>	AM AM	1.0	0	$\Delta$	. –

Example#	HEC MW	HEC wt%	low end valu PEO MW (x10 <sup>3</sup> )	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
	(x10 <sup>3</sup> )	25000	10.000	12761 (Care Care Care Care Care Care Care Care	AM	1.0	0	Δ	0
1		0.25		il de la la C	AM	1.0	0 _	Δ	
4	gre hiere	0.25	10 m	State of the	AM	1.0	0	Δ	
/	6.5 (1)		150~400			1.0	0	Δ	
10		Carlo San Carlo Carlo Carlo Carlo Carlo	150~400	Sec. 2012	AM	1.0	0	Δ	
13		0.23	150~400	Some F		1.0	0		
16		321-00	88900800	Programs a	AM	1.0	0	$\Delta$	0
19	A 17 17 17 17 17 17 17 17 17 17 17 17 17		6 10 (cler; 3 1519)9	le ovejst.	AM	1.0	<b>Q</b>		
22 25		0.23	30 (6.2000)		AM	1.0	0	Δ	
28				<b>3</b> 0.1	AM	1.0	0	$\triangle$	
3	THE RESIDENCE OF A SPECIAL PROPERTY.	0.25		0.1	AM	1.0	☆		0
34		0.20		0.1	AM	1.0	0	$\triangle$	
3	7	S. Carlo	150~400	0.1	AM	1.0	0		0
4(	THE RESERVE AND ASSESSMENT	0.25	150~400	0.1	AM	1.0	_☆_	<u> </u>	<del>  -</del>
4:	The second second	0.20	150~400	0.1	AM	1.0	0		
<del>4</del> .		Page 1	E0000-E00		AM	1.0	0		
4		0.25	\$ 1010 (QCC \$ (0.12)		AM	1.0	☆	$\perp$	<del> </del>
5			si cintele eciale)		AM	1.0	0		
5			e classical		AM	1.0	0	$\rightarrow$	<del></del>
5		0.25		0.5	AM	1.0	0	Δ	0
6	O 100 100 100 100 100 100 100 100 100 10			100	AM_	1.0	0	<u> </u>	
6	4		150~400		AM	1.0	0		
6		0.25	150~400	A 10 0	AM	1.0	0	$\downarrow$	
	O G		150~400		AM	1.0	0	4	<del> </del> -
	3		16000 A 200		AM	1.0	0	$\rightarrow$	
	6	5 (4) 5-4/55-24-3	600103-8300		AM	1.0	0	<u> </u>	
	9 00	22/20	8000-800		AM	1.0	0		

Table 2 (HE	EC MW is	fixed at a	mid range v	alue)				,	<del></del>
Example#	HEC MW (x10 <sup>3</sup> )	HEC wt%	PEO MW (x10 <sup>3</sup> )	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
2		26000000	NO 60 70 70 70 70 70 70 70 70 70 70 70 70 70	\$20087.EV.	AM	1.0	0	Δ	
5		0.25	BELLEVIE CONTROL		AM	1.0	0	Δ	٥
8		0.20	101.65176	in a second	AM	1.0	O	Δ	
11	1,200	16.080	150~400	Stato (et s	AM	1.0	Ö	Δ	_
14		0.25	150~400	Scalinio .		1.0	Ø	Δ	0
17					AM	1.0	0	Δ	
20		a diela a	SURFEE STOR		AM	1.0	0	$\Delta$	-
23	<del></del>	0.25	is ileia saselais	STEET TO SE		1.0	0	Δ	0
26		2	(a) i laje (3 aj aj aj aj	es (alta). S	AM	1.0	0	Δ	_
29		90,018		0.1	AM	1.0	0	Δ	
32		0.25		0.1	AM	1.0	☆	Δ	
35			er Kaline Sajerese	0.1	AM	1.0	0	Δ	
38		0.00	150~400	0.1	AM	1.0	0	Δ	
41		0.25	150~400	0.1	AM	1.0	☆	Δ	0
44	+		150~400	0.1	AM	1.0	0	Δ	<u> </u>
47		COL	E 01102-29000	0.1	AM	1.0	0	Δ	0
50		0.25	e locale, velociti	0.1	AM	1.0	☆	Δ	0
53		200		0.1	AM	1.0	0	$\Delta$	0
56		780 DE	al all sales of		AM	1.0	0	Δ	
59		0.25	W. Grane		AM	1.0	0	Δ	
62			Male and		AM	1.0	0		0
65		9.0	150~400		AM	1.0	0	<u> </u>	0
68	_	0.25	150~400		AM	1.0	0	<u> </u>	0
71	1,200		150~400	10.5	AM	1.0	0	<u> </u>	<u> </u>
74	1,200				AM	1.0	0	4	
77	1,200	0.25			AM	1.0	0	<u> </u>	
80	1,200	1 × 2	(80)300 43000	1 0 0	AM	1.0	0	$\triangle$	

Table 3 (HI	EC MW is	fixed at a	high value)						
Example#	HEC MW (x10 <sup>3</sup> )	HEC wt%	PEO <b>MW</b> (x10 <sup>3</sup> )	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
3	4.800	110	£ 100000000	Hare State I the	AM	1.0	0	Δ	0
	1800	0.25	E Fact Service	inct V	AM	1.0	Ö	Δ	<u> </u>
9				e Salot Vi	AM	1.0	Ö	Δ	0
12		* O 06		e (Birle)	AM	1.0	0	Δ	
15		0.25	150~400	Control of	AM	1.0	0	Δ	_
18	1 800		150~400	Marie (e.g.	AM	1.0	0	Δ	
21	800	e loroje	6000-8000	25 (10)	AM	1.0	0	Δ	<b>–</b>
24	800	0.25	e protestistation		AM	1.0	0	Δ	
27		2	eloicie e elojoja	0.005	AM	1.0	0	Δ	0
30		G 06	8 (4 (5 ) 2 (6 )	0.1	AM	1.0	0	Δ	
33	H 800	0.25	10.3F.0F		AM	1.0	☆	Δ	_
36	A REGUL	2.1	eric de Co	0.1	AM	1.0	0	Δ	-
39		0.06	150~400	0.1	AM	1.0	0	Δ	_
42			150~400	0.1	AM	1.0	☆	Δ	
45	The state of the s	2.	150~400	0.1	AM	1.0	<b>O</b>	Δ	0
48	250 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.006	(cleine zalateta		AM	1.0	0	Δ	-
51	Address of the second	0.25	603053000		AM	1.0	☆	Δ	
54		2.0	(6)0)612-8(0)0)8		AM	1.0	0	Δ	
57			200M20	1,500	AM	1.0	0	Δ	0
60		0.25	80-120	0.5	AM	1.0	0	Δ	
63		2	80+120		AM	1.0	0		<u> </u>
66		0.05	150~400	4069	AM	1.0	0	$\triangle$	<b>↓_</b>
69			150~400	0.5	AM	1.0	0	$\triangle$	
72	100	S 2 4	150~400	0.5	AM	1.0	0	$\triangle$	<u> </u>
75		0.05	800048000		AM	1.0	0	$\triangle$	0
78		0.25	6000%8000		AM	1.0	<u> </u>	$\triangle$	
81	1,800	2	6000-8000	0.5	AM	1.0	Q _	Δ	

Example#	HEC MW (x10 <sup>3</sup> ) _	HEC wt%	PEO MW (x10 <sup>3</sup> )	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
1		390600	A HOSALANCE	Million Co.	AM	1.0	0	Δ	0
2	200000000000000000000000000000000000000	50000		and C.	AM	1.0	0	Δ	
3		And Artis	74. Pet 2006	State L	AM	1.0	0	Δ	0
10		in the first	150~400	<b>医静脉</b>	AM	1.0	0	Δ	<u> </u>
11	1,200	4000	150~400	Section 1	AM	1.0	0	Δ	<u> </u>
12			150~400	\$0.000 kg	AM	1.0	0	Δ	
19	100	REAL PROPERTY.	Circle Carlotte		AM_	1.0	0	Δ_	0
20	1,200	是 1000	(sicle)), sieleje	38000100	AM	1.0	0	Δ	
21		(80) (FE 2)			AM	1.0	0	$\Delta$	1 -
28	器的证据		(4) (6) (6) (6)		AM	1.0	0		
29	1,200		MINE SELECT	0.1	AM	1.0	0		
30	THE PERSON NAMED AND PARTY ASSESSED.		Solidonia (Contraction)	0.1	AM	1.0	Ø	<u> </u>	<del>                                     </del>
37	All Miles Company	0.05	150~400	0.1	AM	1.0	0	1 4	©
38		\$10 mm	150~400	0.1	AM	1.0	0	1 4	
39		1000	150~400	0.1	AM	1.0	0	$\triangle$	
46			्राच् <b>रिक्टीका स्टेस्टीका</b>		AM	1.0	0	<u> </u>	
47		basing a			AM	1.0	0	1 4	0
48		IS OF THE		0.1	AM	1.0	0	<u> </u>	
_ 55	140011			18.00.57	AM	1.0	0	<u> </u>	
56		0.00		1000	AM	1.0	0	$\triangle$	<del>  -</del> =
57	THE STREET STREET		210050200V	16 00 AS	AM	1.0	0	$\triangle$	
64	ASSACRE PROPERTY OF THE	62(0)(-)(-)	150~400	0.5	AM	1.0	0	$\Delta$	<del>                                     </del>
65		le etale		J (0.50)	AM	1.0	0	<del>                                     </del>	0
66	4 177	armit.	150~400	0.5	AM_	1.0	0	<u> </u>	<del>  -</del>
73	- All profittings and a second	0.06	(6(9)0÷80(0)		AM	1.0	0		
74	., .,	#0r05	E000-8000		AM	1.0	0	$\triangle$	<del>  -</del>
75	1 800	0.05	\$ [	0.5	AM_	1.0		$\Delta$	0

Example#	HEC MW (x10 <sup>3</sup> )	HEC wt%	mid range v PEO MW (x10 <sup>3</sup> )	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
4	(XTU)	0.25		(1.01 FIRE 1.5. )	AM	1.0	0	Δ	
5		0.25	<b>5 1 1 1 1 1 1 1 1 1 1</b>	y valet . Vi	AM	1.0	0	Δ	0
6		0.25	POR SYNCHOLOGIC	groje sy	AM	1.0	0	Δ	
13			150~400	(Construct	AM	1.0	0	Δ	
14		0.25	150~400	0.00	AM	1.0	0	Δ	Q
15		0.25	150~400		AM	1.0	0	Δ	
22	A COURT	0.25	and the Carefule		AM	1.0	٥	Δ	
23	1,200	0.25			AM	1.0	<u> </u>		0
24	34400	0.25	Camble Campie		AM	1.0	0	Δ	
31	(A)	0.25		0.1	AM	1.0	☆_	Δ	0
32	1,200	0.25	S DESPU	0.1	AM	1.0	☆	<u> </u>	
33	Marco ex	0.25			AM	1.0	☆	Α_	<del>-</del>
40	200		150~400	0.1	AM	1.0	<u>\$</u>	Δ	
41		0.25	150~400	0.1	AM	1.0	☆	<u> </u>	0
42			150~400	0.1	AM	1.0	☆	<u> </u>	
49	270000000000000000000000000000000000000		(3010)05/31/31/00		AM	1.0	_ ☆	$\triangle$	
50		0.25		0.1	AM	1.0	*		0
51	j Hojek	0.25	Service Ligities	0.1	AM_	1.0	<u>\$</u>	<del>                                     </del>	<del></del>
58	- Carrier Contract	0.25	re aproprie	201.34	AM	1.0	0	<u> </u>	
59		0.25			AM	1.0	0	<del>\</del>	<del>-</del> -
60				17.00	AM	1.0	0		<del>  -</del>
67	144-344-341-341-341-	0.25	150~400		AM	1.0	0	$\triangle$	<del>                                     </del>
68		0.25	150~400	0.0	AM	1.0	<u> </u>	<del>                                     </del>	<u> </u>
69		0.25	150~400	0.8	AM	1.0	0	$\frac{\Delta}{\Delta}$	+=-
76	Transfer of the Assessment	0.25	Encl. Parist		AM	1.0			<del></del>
77		0.25	(Spiele Chairle)		AM	1.0		+ 🚓 -	+
	1 800	0.25	8000=8000	A SUID	MAM_	1.0	_ ©		

Example#	HEC MW (x10 <sup>3</sup> )	HEC wt%	PEO MW (x10 <sup>3</sup> )	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
7			# 50.55V.0.5		AM	1.0	0	Δ	
8	1,200		(*   107.25 (*   107.27.76.2	San (ers	AM	1.0	0	Δ	٠
9			2 <b>4</b> 35 34 36 32	Sec. 0(-): (8	AM	1.0	0	Δ	0
16	(in a)	5.5	150~400	製作企業	AM	1.0	0	Δ	0
17	1,200	2	150~400	STATE OF THE	AM	1.0	0	Δ	
18	The second secon	2	150~400	in the steel see	AM	1.0	0	Δ	_
25	e victory.		eletojs estejoje		AM	1.0	0	Δ	
26			icieleis Daiels		AM	1.0	0	Δ	
27	2000		(3)(1)(6)(6)(3)(1)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)		AM	1.0	0	Δ	0
34	300		E South Page	0.1	AM	1.0	0	Δ	
35	1,200	7.0	Philip Co.	0.1	AM	1.0	0	Δ	
36	<b>31-8100</b>		RIO MINUR	0.1	AM	1.0	0	Δ	
43	100		150~400	0.1	AM	1.0	0	Δ	
44	1,200	7	150~400	0.1	AM	1.0	0	Δ	
45	S (1960)		150~400	0.1	AM	1.0	0		0
52	3.70		[2]0[0]2		AM	1.0	0		
53	1,200	2	(E(0)0)07E(0)07E	0.1	AM	1.0	0	$\triangle$	0
54	W 61010		[2(4)6(2)2(6)3)6		AM	1.0	0	Δ	_
61	10101			0.5	AM	1.0	0		
62	1,200		release to	18 miles	AM	1.0	0	Δ	0
63	3000	2		0.5	AM	1.0	0	Δ_	
70	\$ 2007	2.0	150~400	0.6	AM	1.0	0	<u> </u>	
71	1,200	2.5	150~400	0.6	AM	1.0	0	$\triangle$	<del>  -</del>
72	March Inc. Grand granden	2.2	150~400	0.5	AM	1.0	0	<u> </u>	0
79	Committee of the commit	2.	E(5)5(0:3)010(6		AM	1.0	0	Δ	<b>↓</b> <u> </u>
80		2	lebie edos		AM	1.0	0	<u> </u>	
81	11.800	12.2	licanoesolo	0.310	AM	1.0	0	Δ	Q

xample#	MW	HEC wt%	PEO MW	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
	$(x10^3)$			NOT SHARE	AM	1.0	0	Δ	0
1				libration visual	AM	1.0	0	Δ	
2	1,200				AM	1.0	0	$\triangle$	0_
3		0.25			AM	1.0	0	$\Delta$	
4	100 A	0.23		e San Galeria E San Galeria	AM	1.0	0		0
5		0.25 0.25			AM	1.0	0	Δ_	<u> </u>
		U.23		lls a foler st	AM	1.0	0		<u> </u>
					AM	1.0	0	Δ	
	1,200			are or in the	AM	1.0	0	$\Delta$	
				0.1	AM	1.0	0	$\triangle$	
28	1400			0.1	AM	1.0	0	$\Box \triangle$	
29				0.1	AM	1.0	0	Δ	
30		0.25		0.1	AM	1.0	☆		0
3		0.25		0.1	AM	1.0	☆		
3:		0.25		0.1	AM	1.0	☆	Δ	
3		U.25		0.1	AM	1.0	0	$\Delta$	
3		***			AM	1.0	0	Δ	
3				0.1	AM	1.0	0	Δ	
	6 2 800		M1 60 10 10 10 10 10 10 10 10 10 10 10 10 10	70716	AM	1.0	0	Δ	
	5				AM	1.0	0	$\Delta$	
5	6 1,200				AM	1.0	0	Δ	9
5	7 9 9 8 1 1	0.05			AM	1.0	0	Δ	0
	8				AM	1.0	0	Δ	
	9 1,200	0.25			AM	1.0	0	Δ	
	0 3 800	0.25			AM	1.0	0	Δ	
	1	TOPACO PLANTAGE AND ADDRESS OF THE PARTY OF	in the second		AM	1.0	0	Δ	
	1,200 3 3 800			6.55	AM	1.0	0	Δ	

Table 8 (Pt		fixed at a	mid range v	alue)				_	
Example#	HEC MW (x10 <sup>3</sup> )	HEC wt%	PEO MW (x10 <sup>3</sup> )	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
10		A TO YOU SHE	150~400	3000000	AM	1.0	0	Δ	_
11	1,200	Paristic Lynn	150~400	exposed a	AM	1.0	0	Δ	<b>–</b>
12		F4-14-13	150~400	Stepe of A	AM	1.0	0	Δ	
13	ARTICLE BOSSESSES INC. BUTCHE	0.25	150~400	Mirror Post	AM	1.0	0	Δ	_
14		0.25	150~400	A FIRST	AM	1.0	0	Δ	0
15		0.25	150~400	影響的電	AM	1.0	0	Δ	_
			150~400	negovalov.	AM	1.0	0	Δ	Q
17	1,200	200	150~400	24.700	AM	1.0	0	Δ	
18	1,8100		150~400	\$0,000	AM	1.0	0	Δ	_
37	3 (a (a) a 2	0.05	150~400	0.1	AM	1.0	0	Δ	0
38	1,200	0.05	150~400	0.1	AM	1.0	0	Δ	_
39	¥ (00)	0.06	150~400	0.1	AM	1.0	0	Δ	
40	800	0.25	150~400	0.1	AM	1.0	☆	Δ	
41		0.25	150~400	0.1	AM	1.0	☆	Δ	0
42	EDIOS	0.25	150~400	0.1	ĂΜ	1.0	☆	Δ	<u> </u>
43	300	2 2 6	150~400	0.1	AM	1.0	0	Δ	_
44	1,200	200	150~400	0.1	AM	1.0	0	Δ	
45	1.800	12	150~400	0.1	AM	1.0	0	Δ	0
64	A STATE OF THE STATE OF A PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON A	2000	150~400	306	AM	1.0	0	Δ	_
65	1,200	0.05	150~400	0.50	AM	1.0	0	Δ	0
66	1,800	0.05	150~400	0.8	AM	1.0	0	Δ	
67	300	0.25	150~400	0.5	AM	1.0	0	Δ	
68	1,200	0.25	150~400	0.5	AM	1.0	0	Δ	0
69			150~400	0.5	AM	1.0	0	Δ	
70	300	2	150~400	\$1075.85	AM	1.0	0	$\triangle$	_
71		2.2	150~400	0.5	AM	1.0	0	Δ	
72	1 800	2	150~400	0.5	AM	1.0	0	Δ	0

Example#	MW HEC	HEC wt%	high value) PEO MW (x10 <sup>3</sup> )	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
	$(x10^3)$		l`	NECONTROL OF	AM	1.0	0	Δ	0
	Section 2		C. (010(0), 2510(0), 2 C. (010(0), 2510(0), 2	12 CONTRACTOR	AM	1.0	0	Δ	
20	1,200				AM	1.0	0	Δ	
21	0.012	0.25		i San Signa Car	AM	1.0	0	Δ	
22	7.3	0.25 0.25	To available	in Since	AM	1.0	0	Δ	0
23		0.25		No. (Angle)	AM	1.0	0	Δ	
24		U.23			AM	1.0	0	Δ	
25			3 (2) (2) (2)		AM	1.0	0	Δ	
26	1,200			ing the state		1.0	0	Δ	
27			(80000) Eldib		AM	1.0	0	Δ	<u> </u>
46			renteletesjolei		AM	1.0	0	$\Delta$	0
47			F-0000-8000		AM	1.0	0	lacksquare	
48		0.25	(0)010)2310[9]		AM	1.0	☆_	$\Delta$	
49		0.25 0.25	\$10(0) \$2.10(0)		AM	1.0	☆	Δ	0
50	1,200		(F) (F) (F)	0.1	AM	1.0	☆	Δ	
5		U.25	2000 - FU	0.1	AM	1.0	0	Δ	<u> </u>
	2				AM	1.0	0	Δ	0
5			gerantisty felt	0.1	AM	1.0	0	ΙΔ	
5			Sintelet (als)		AM	1.0	0	$\Delta$	
	3		Chiniolo Carolis		AM	1.0	0	$\Box \Delta$	
	4 1,200				AM	1.0	0	Δ	
	5	0.25	(E) (10 (C-10) (C)	NEC V	AM	1.0	0	Δ	
	6	10.00	E060500	To Visit Mark To Visit	AM	1.0	Q	Δ	
	7 1,200	0.25	16 91316 5 161		AM	1.0	0	Δ	
	8 1800		F 101 - C.O.	100	AM	1.0	0	Δ	
	9				AM	1.0	0	Δ	
	1,200 1 1 <b>6</b> 00		\$ (0,000 P2(6)		171177	1.0	0	Δ	

Table 10 (PEO wt% is fixed at a low end value)

Table TU (F	HEC	is fixed at	a low end va	ilue)		,		T-	,
Example#	MW (x10 <sup>3</sup> )	HEC wt%	PEO MW (x10 <sup>3</sup> )	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
_ 1	e de la troit	Albert 4	WHO ELECT	30,000	AM	1.0	0	Δ	0
2	1,200	\$1895Q	2016 C 1016	old. T	AM	1.0	0	Δ	
3	18. TO (19. H	3000	A LINE DO	r ojstak	AM	1.0	0	Δ	0
4	ESPICES.	0.25	<b>第10</b> 条约数	<b>第一章 中华</b>	AM	1.0	0	Δ	_
_ 5		0.25		West let &	AM	1.0	0	Δ	0
6		0.25		10000	AM	1.0	0	Δ	_
7	R\$-[0]	2.3	A DESCRIPTION		AM	1.0	0	Δ	_
8			SEPARATE OF		AM	1.0	0	Δ	
9			E001000		AM	1.0	0	Δ	0
10		0.06		34,10,01-78	AM	1.0	0	Δ	
11	1,200	0.05	150~400	0.006	AM	1.0	0	Δ	
12		U105		0.005	AM	1.0	0	Δ	_
13		0.25	150~400	D 005		1.0	0	Δ	_
14	1,200	0.25	150~400	0.0002		1.0	0	Δ	0
15	1-890	0.25	150~400	0.008	AM	1.0	0	Δ	
	10101	2		60 005		1.0	0	Δ	0
17	1,200	2.6	150~400	Services.	AM	1.0	0	Δ	
18		2	150~400	510)(0)0)-5		1.0	0	Δ_	
19	CHELL THE BOWN STATE OF THE STATE OF	20105	(5161916154f)3[6]6			1.0	0	Δ	0
20	1,200	+0105	egitigjerkæleteje		AM	1.0	0	Δ	
21	12 13 10 10 10	0.00	60000-6000		AM	1.0	0	$\triangle$	
22	3000		56006550000		AM	1.0	0	<u> </u>	
23	1,200		Se(0)0-30000			1.0	0	<u> </u>	0
24	St. Slole	0.25	(3)0(0(6) (3)(0(6)(6)		AM	1.0	0	<u> </u>	
25	TATAL TATAL TATAL		50000 (ELDING		AM	1.0	<u> </u>	<u> </u>	
26			60,000,810,000			1.0	0	<u> </u>	
27	1000		6000-8000	SO 005	AM	1.0	0	$\triangle$	LO

able 11 (F	HEC MW	HEC wt%		PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
	$(x10^3)$	ľ	1, , I	0.1	AM	1.0	0	Δ	
				0.1	AM	1.0	0		
29		Street S		0.1	AM	1.0	0		
30	Service.	0.25	Additional and the second and the second	0.1	AM	1.0	☆		0
31		0.25	30.10.2020 30.10.2020	0.1	AM	1.0	☆	Δ	
32		0.25		0.1	AM	1.0	☆		<u> </u>
33		0.23		0.1	AM	1.0	0	<u> </u>	<del> </del> _
34				0.1	AM	1.0	0	<u> </u>	<del>-</del> -
35				0.1	AM	1.0	0	$\Box$	<del>                                     </del>
36	100000000000000000000000000000000000000	di Santa	150~400	0.1	AM	1.0	0	<b> </b>	0
37	4 200		150~400	0.1	AM	1.0	0	$\triangle$	<del> </del>
38			150~400	0.1	AM	1.0	0	$\downarrow  \stackrel{\triangle}{\rightarrow} $	<del> </del>
39	CO. 10 C.	0.25	150~400	0.1	AM	1.0	☆	Δ	<del>                                     </del>
40		0.25	150~400	0.1	AM	1.0	_ ☆_	$\rightarrow$	
4	CONTRACTOR OF STREET	0.25	150~400	0.1	AM	1.0	<u></u> ☆	<b>A</b>	
4:			150~400	0.1	AM	1.0	0	$\triangle$	
4			150~400	0.1	AM	1.0	0	$\triangle$	<del>  -</del>
4	The Company of the Co		150~400	0.1	AM	1.0	0		<u> </u>
	100000000000000000000000000000000000000		A STORY AND A	0.1	AM	1.0	0	$\rightarrow$	
		3000	e vajojstej jajojul		AM	1.0	0	<b></b>	0
	DESIGNATION OF STREET		[2] (] e] e] e [2] (12] e [6]	0.1	AM	1.0	0	$\triangle$	<del></del>
			4106.000	0.1	AM	1.0	<b>☆</b>	<u> </u>	-
	CHAMBOO THES		The leaves to be	0.1	AM	1.0	<b>\$</b>	$\rightarrow$	0
			(2010)	0.1	AM	1.0	☆	$\rightarrow$	<del></del>
	1 800 2 800	*****		0.1	AM	1.0	Q	<u> </u>	+=
	100000000000000000000000000000000000000	TOTAL PROPERTY OF THE PARTY OF	and pre-allie		AM	1.0	0	$\rightarrow$	0
	3 1,200 4 180				AM	1.0	0	$\bot$	

able 12 (P example#	MW HEC	HEC wt%	PEO MW (x10 <sup>3</sup> )	PEO wt%	Alkaline	Alkaline wt%	Haze Level	LPD	Surface Condition
	$(x10^3)$	RESEASION EN		470 N. CO.	AM	1.0	0	Δ	
	4 200		side in		AM	1.0	Ö	Δ	_
56	1,200				AM	1.0	0	Δ	0
57		0.25			AM	1.0	0	Δ	0
58	Artist Control of the	0.25	Service Factor		AM	1.0	0	$\triangle$	_
59 60					AM	1.0	0	Δ	
	The state of the s	0.23			AM	1.0	O _	Δ	
61	1.200			100	AM	1.0	Ø	Δ	0
62				0.0	AM	1.0	0	Δ	T
63	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		150~400	0.5	AM	1.0	0	Δ	<b>—</b>
64		i di di si si si	150~400	1005	AM	1.0	0	Δ	0
65			150~400	0.6	AM	1.0	0	Δ	
66		0.25	150~400		AM	1.0	0	Δ	
67		0.25	150~400		AM	1.0	O O	Δ	0
68	C. Co. H. v. DW O'AHATAN	0.25	150~400	0.5	AM	1.0	1 0	Δ	
69		0.23	150~400		AM	1.0	<b>©</b>		
			150~400		AM	1.0	Ö	Δ	
			150~400	7	AM	1.0	0	Δ	
72			8000 200		AM	1.0	0	Δ	_
73			(s(s[e]e); (de]e)		AM	1.0	0	Δ	
	CONTRACTOR OF STREET AND ADDRESS.	619	alcioles alois)		AM	1.0	0	Δ	0
		0.25	(Se 50)- 8100		AM	1.0	0	Δ	
77	A PARTY NAME OF TAXABLE PARTY.	0.25	(2014) 2000		AM	1.0	0	Δ	
78	The state of the s	0.25	50 90 × 8 1 5	a Parageria	AM	1.0	0	Δ	
79		0.23	350 00 1500		AM	1.0	0	Δ	
80			N (40)000 A (40)	Market Carlot My T. M. Westerner, E. oren	AM	1.0	0	Δ	
8	THE RESERVE OF THE PERSON NAMED IN		(1818)43 R010	AT HE WAS ASSESSED BUT BOARD BOT		1.0	0	Δ	0